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models can be
used to simulate

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experiments.

This is, in
fact, one of the
most important

yet poorly

understood

function of such

models. If one

wishes to test a

hypothesis about

how some aspect

of a system

functions, and

if one already

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has a
mathematical
model describing
this system, one
can simulate the
proposed
experiment to
test a priori if
the data
generated will
be sufficient to
test the
hypothesis.

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Heldt, George C.
Verghese, and
Roger G. Mark

Abstract

Although
mathematical
modeling has a
long and very
rich tradition
in physiology,
the recent
explosion of

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Models For
biological, and
biomedical, and
clinical data
from the
Physiological
Responses
cellular level
all the way to
the organismic
level promises
to require a re-
newed emphasis
on computational
physiology, to
enable
integration and

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analysis of vast
amounts of life

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dynamics
concepts that
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systems. They
use the models
to solve
problems drawn

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Using
mathematical
model to predict
and simulate the
human thermal
behavior is a
very useful tool
for studying
thermal
regulation
capability of
human body. Many
related research
work have been

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carried out in
this field.

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Physiological
Responses

Gagge et al. [3]
developed a two-
node model for
describing the
thermoregulatory
system of

*An Improved
Mathematical
Model of Thermal
Physiological*

...

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physiological
homeostasis,
despite external
perturbations
and internal
disease

processes.

Mathematical
modeling and com-
puter simulation
can improve the
understanding of
such inter-
actions and

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provide an
efficient
quantitative
tool for the
analysis of
cardiopulmonary
dynamics. In
particular,
physiologi-

*An integrated
mathematical
model of the
human . . .*

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based
pharmacokinetic
modeling is a
mathematical
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technique for
predicting the
absorption,
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metabolism and
excretion of
synthetic or
natural chemical

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substances in
humans and other
animal species.
Simulating
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PBPK modeling is
Responses
used in
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development, and
in health risk
assessment for
cosmetics or
general
chemicals. PBPK

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models strive to
be mechanistic
by
mathematically
transcribing
anatomical,
physiological,
physical, and
chemical
description

*Physiologically
based
pharmacokinetic*

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modelling **For**
Wikipedia
Abstract. The
objective of
this study is to
develop a
mathematical
model for
simulating the
thermal
physiological
responses of
clothed infants.
By modifying and

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Integrating
Gagge's two-node
model and

Stolwijk's multi-
node model, and

coupled with the
model of dynamic
couple heat and
moisture

transfer in
functional

clothing, a new
seven-node

thermoregulation

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infants was
developed.

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biological
systems is a
significant task
of systems

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biology and
mathematical
biology.
Computational
systems biology
aims to develop
and use
efficient
algorithms, data
structures,
visualization
and
communication
tools with the

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goal of computer
modelling of
biological
systems. It
involves the use
of computer
simulations of
biological
systems,
including
cellular
subsystems (such
as the networks
of metabolites

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and enzymes
which comprise
metabolism,
signal
transduction
pathways and
gene reg

*Modelling
biological
systems -
Wikipedia*
Pašek et al.
consider the

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role of cardiac
T-tubules in the
physiological
modulation of
electrical and
contractile
activity through
development of a
mathematical
model of
ventricular
cardiomyocytes
in which the
cardiac

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transverse
tubular system
is described as
a single
compartment,
allowing them to
demonstrate the
effects of this
system on
Ca²⁺ handling
K⁺ handling
(Pašek et al.
2006) .

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A monolithic
algorithm for
the simulation
of cardiac ...
system, the
multiscale
nature of the
physiological
processes
involved, and

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the need to
devise
computational
methods that are
stable, reliable
and efficient.
Critical issues
involve
filtering the
data,
identifying the
parameters of
mathematical
models, devising

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optimal
treatments and

*The
cardiovascular
system:*

*Mathematical
modelling ...*

Mathematical
models can be
deployed to
simulate

physiological

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processes of the human organism. Exploiting these simulations, reactions of a patient to changes in the therapy regime can be predicted. Based on these predictions, medical decision support systems

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Mathematical
(MDSS) can help
in optimizing
medical therapy.

*Simulating
Physiological
Responses
physiological
interactions in
a hybrid system*

...

This allows
Bourne et al. to
simulate
optimized ...

This hypothesis

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energy
transductions in
a fibre. ... The
dimensionless
mathematical
model which ...

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models in*

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Several
simulation
Physiological
Responses
models have been
proposed in the
literature that
proved to be
useful in
tackling various
aspects of
pathophysiology
of diabetes.

1-11 Recently, a
new meal

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simulation model
has been
proposed. 12 The
novelty and
strength of this
model are that
it is based on
virtually model-
independent
measurements of
the various
glucose and
insulin fluxes
occurring during

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a meal. 13,14 In fact, the system is very complex, and only the availability of glucose and insulin fluxes, in ...

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in Health and*

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reactions of a
patient to
changes in the
therapy regime
can be
predicted.

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